

## THE ARIZONA REPUBLICAN.

The REPUBLICAN has double the circulation of any other daily newspaper in Arizona, and is the only one taking full press dispatches.

All Contracts and bills for advertising payable monthly.  
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## DAIRY AND CREAMERY.

## ABSURDITY OF THE LAW DEFINING A LEGAL CHEESE.

The Law Should Define What the Cheese Itself Must Contain in Order to Fill the Legal Requirement, Not the Constituents of the Milk That Makes It.

The absurdity of some of our dairy laws can be seen by the practical effect when directed to the one that says a legal cheese is one made of milk that has 3 per cent. of fat in it. The presumption of the law is that if a cheese is made of such milk the resulting cheese will have in it 30 per cent. fat, on the theory that the process of cheese making eliminates nine-tenths of the weight of the milk taken to make it. While so much is true of such milk, it by no means follows that more than that does not go to the whey vat, and that the excess over 90 per cent. that goes out in pure fat is lost through want of skill in the making. The buyer of a cheese wants to get the quality he pays for in his cheese, and is not so very much concerned about what is in the milk if he does not get the best and most valuable part of it in the cheese.

The law should define a legal "standard" cheese to be one that has so much per cent. of fat in it; the same as it defines the legal standard for milk that is sold as whole milk. It is the amount of pure gold that is in our "standard" dollar that makes it legal and current, not the per cent. of gold the quartz bore when it was mined.

We used to hear there was a time when the English buyers of large shipments of cheese to that country did not write acceptance of the consignment till after samples of the same had been "tried out" and found to contain the requisite amount of fat to fulfill the contract. All buyers of cheese should have that same check back on the seller, just the same as he has now for short weights or bad cheese surreptitiously boxed and shipped. In short, all should have what they pay for. We all agree on that point when we are buyers.—Hoard's Dairyman.

## A Ration of Cottonseed Meal.

Henry Morse, of Delaware county, N. Y., who has become wealthy by dairying, says that he has fed cottonseed meal to his cows for eight years, the first four in connection with other grains and after that pure, except while cows were dry and on coarse fodder they were given wheat bran and such grain as was produced on the farm. As soon as the cows came in full milk they were given hay twice a day and three quarts of cottonseed meal in the morning and two quarts at night. The morning ration of meal was mixed with six quarts of sweet skimmed milk.

When at pasture they received two quarts of the meal a day. Following this practice he was able to keep 25 per cent. more cows and make 20 per cent. more butter per cow than by any other grain method. The manure from the cows fed so heavily on cotton seed meal was very rich and gave about double the crops of hay that other manures gave. The pastures also show it, and the increased value of the manure nearly pays for the cotton seed meal.—New England Homestead.

## Frozen Fodder.

The usual complaint that butter is very hard to "come" this cold weather has been made during the season frequently. The reason of it is now believed to be the feeding of frozen fodder to milk cows. We wish our farm and dairy readers would experiment in this matter and determine for certain whether it is frozen fodder that makes butter hard to come in winter. Some claim that dried fodder, frozen or unfrozen, is the cause. The experiment might be made by feeding the cows for a week on other food than fodder, then seeing if the butter came any sooner.

## Notes.

A town where the farmers have no creamery and don't want one is a good town to avoid when one wants a farm for a home, says The Massachusetts Plowman.

The Ohio Creek cheese factory in Gunnison county, Col., made this year, up to the 1st of December, 40,000 pounds of cheese, besides 125 pounds of butter a week. Furthermore, a number of hogs were fattened from what was left over after the butter and cheese were made. This is a No. 1 record.

Numbers of creameries have been obliged to shut down for want of milk in Kansas and Nebraska. The shortage of milk is due to shortage in cow feed owing to drought. But the other places will realize higher prices for their butter.

Wherever not less than 200 cows are close together in a neighborhood, there a cheese factory or creamery may be started.

When cows have chapped or sore teats in cold weather rub a little vasoline carefully upon them after the milking is done, not before.

The makers of dairy butter should keep sight of the fact that good butter cannot be steadily produced without the thermometer.

If you want milk for butter making, test it for fat globules. If you want it for cheese making, test it also for casein.

Let there be the fullest, freest exhibition of all the milk and cream test apparatus at the Columbus fair in 1893. Let the experimenting be kept in progress constantly, that all the dairymen, farmers and creamerymen may know that whether they are honest or dishonest their conduct will be fully known. The department of agriculture itself would do well to take charge of the experiments, so important are our creamery interests.

The cheese factory at East Otto made not long since the largest cheese ever produced in the United States. It weighed 4,000 pounds after it was cured, and was five feet in diameter.

## OFFICIAL DRAWING

—OF THE—

## Louisiana State Lottery,

Single Number, Class "C."

Drawn at New Orleans, Louisiana,

on Tuesday, March 17, 1891.

## CAPITAL PRIZES.

No. 16,938 draws the capital prize of \$500,000; sold in New Orleans, La., San Francisco, Chicago, St. Louis, Boston and Washington.

No. 13,353 draws the second capital prize, \$100,000. The place where it was sold is not announced.

No. 52,693 draws the third capital prize, \$50,000; sold in New Orleans, Boston, Indianapolis and St. Louis.

No. 31,425 draws the fourth capital prize, \$25,000; sold in New Orleans, San Francisco, Chicago, Charleston, S. C., Tacoma, Wash.; St. Louis and Terre Haute, Ill.

Nos. 56,408 and 68,299 draw each \$10,000. Places where sold not announced.

The following numbers drew

\$500 PRIZES.

\$100 PRIZES.

\$50 PRIZES.

\$25 PRIZES.

\$10 PRIZES.

\$5 PRIZES.

\$2 PRIZES.

\$1 PRIZES.

\$0.50 PRIZES.

\$0.25 PRIZES.

\$0.10 PRIZES.

\$0.05 PRIZES.

\$0.02 PRIZES.

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